

AMENDMENTS TO THE CLAIMS

1. (Withdrawn) A sheet tobacco manufacturing process comprising:

a preparing step of preparing a carrier sheet of nonwoven plant fibers;

a forming step of spreading a tobacco powder material on said carrier sheet to form a tobacco powder layer covering one side of said carrier sheet;

an adding step of adding a binder to said tobacco powder layer during or after said forming step; and

a binding step of binding the tobacco powder material in said tobacco powder layer as well as said tobacco powder layer and said carrier sheet to each other by means of the binder.

2. (Withdrawn) The process according to claim 1, wherein said carrier sheet is formed in said preparing step by a dry nonwoven fabric production process, and said forming step is performed continuously following the formation of said carrier sheet to form said tobacco powder layer on the one side of said carrier sheet.

3. (Withdrawn) The process according to claim 1 or 2, further comprising an intermediate step performed between said forming step and said binding step, to form a cover sheet of nonwoven plant fibers covering the other side of said tobacco powder layer.

4. (Withdrawn) The process according to claim 3, wherein said intermediate step is performed following the formation of said tobacco powder layer, to form said cover sheet by a dry nonwoven fabric production process.

5. (Withdrawn) The process according to claim 1 or 4, wherein in said binding step, the plant fibers of at least one of said carrier sheet and said cover sheet are bound together by means of the binder.

6. (Withdrawn) The process according to claim 1, wherein in said adding step, a binder of powder form is added during the formation of said tobacco powder layer.

7. (Withdrawn) The process according to claim 6, wherein the binder contains cornstarch.

8. (Withdrawn) The process according to claim 6 or 7, further comprising an infiltrating step performed prior to said binding step, to cause a solvent for the binder to infiltrate into said tobacco powder layer admixed with the binder as well as into said carrier sheet.

9. (Withdrawn) The process according to claim 8, wherein in said binding step, said tobacco powder layer and said carrier sheet are pressed with heat applied thereto.

10. (Withdrawn) The process according to claim 1, further comprising a step of forming a tobacco particle layer between said carrier sheet and said tobacco powder layer or between said tobacco powder layer and said cover sheet, said tobacco particle layer containing particles of tobacco stems and laminas.

11. (Currently Amended) A sheet tobacco manufacturing system comprising:

an endless net conveyor traveling in one direction;

an upstream-side forming device arranged at an upstream portion of said net conveyor, for forming a carrier sheet of nonwoven plant fibers on said net conveyor, said upstream-side forming device including a suction box for depositing the nonwoven plant fibers on said net conveyor;

a powder spreading device arranged on a downstream side of said upstream-side forming device, for spreading a tobacco powder material on the carrier sheet to form a tobacco powder layer covering the carrier sheet;

a supply device for supplying the tobacco powder layer and the carrier sheet with a binder and a liquid common to the tobacco powder layer and the carrier sheet; and

a pressing device arranged on a downstream side of said powder spreading device, for heating and pressing the carrier sheet and the tobacco powder layer,

wherein as the carrier sheet and the tobacco powder layer are heated and pressed by said pressing device, a binder liquid constituted by the binder and the liquid infiltrates into

both of the carrier sheet and the tobacco powder layer such that the nonwoven plant fibers of the carrier sheet are bound together by the binder, and also that the nonwoven plant fibers and the tobacco powder material are bound together by the binder.

12. (Original) The system according to claim 11, further comprising a spraying device arranged on an upstream side of said upstream-side forming device, for wetting in advance said net conveyor with a predetermined liquid.

13. (Previously Presented) The system according to claim 11 or 12, further comprising a downstream-side forming device arranged between said powder spreading device and said pressing device, for forming a cover sheet of nonwoven plant fibers covering the tobacco powder layer.

14. (Original) The system according to claim 13, wherein said downstream-side forming device includes a fiber spreading unit arranged above said net conveyor for spreading plant fibers toward said net conveyor, a mesh conveyor arranged between the fiber spreading unit and said net conveyor, the mesh conveyor sucking thereon the plant fibers spread from the fiber spreading unit to form a cover sheet and transporting the cover sheet toward said net conveyor, and peeling means for peeling the cover sheet from the mesh conveyor to allow the cover sheet on the mesh conveyor to be transferred onto the tobacco powder layer.

15. (Previously Presented) The system according to claim 11, wherein

said powder spreading device serves as part of said supply device by spreading a mixture of the tobacco powder material and binder powder as the binder over the carrier sheet, and

said supply device includes spray nozzles arranged between said powder spreading device and said pressing device, the spray nozzles spraying water as the liquid on the tobacco powder layer and the carrier sheet.